

IN THE CLAIMS:

1. (Currently Amended) A switch for establishing a call between a calling terminal of an originating network and a recipient terminal of a terminating network, the switch comprising:

an input for receiving ~~call identification information in a first format~~ a request from the originating network to set up a call with the recipient terminal, the recipient terminal operable in a single numbering scheme that enables the recipient terminal to receive different selectable call types from the calling terminal using a single telephone number to address the recipient terminal; ~~reformatting means for reformatting received call identification information into a second format;~~

an output ~~means for outputting~~ sending the a call identification information in the second format over the terminating network set-up message to the recipient terminal, said call set-up message comprising a bearer capability information element for indicating a type of call to be set up between the calling terminal of the originating network and the recipient terminal; and

~~connection means for completing a connection, suitable for the identified call, between the terminals, wherein the switch is arranged to send a call set-up message containing an empty bearer capability information element to the recipient terminal to inform the recipient terminal that the terminating network is not able to provide the recipient terminal with information from the originating network about the type of call to be set-up.~~

2. (Currently Amended) A switch as claimed in claim 1 47, wherein the call identification information comprises call type information.

3. (Original) A switch as claimed in claim 2, wherein the call type information comprises telecommunications service information.

4. (Currently Amended) A switch as claimed in ~~claim 4~~ claim 2, wherein the call identification information comprises bearer service information.
5. (Currently Amended) A switch as claimed in ~~claim 4~~ 47, wherein the reformatting means for reformatting the received ~~bearer service call~~ identification information is arranged to negotiate the bearer of the terminating network to match that of the originating network.
6. (Currently Amended) A switch as claimed in claim 4 47, wherein the first format is an in-band format.
7. (Currently Amended) A switch as claimed in claim 4 47, wherein the second format is an out-band format.
8. (Canceled)
9. (Canceled)
10. (Canceled)
11. (Canceled)
12. (Canceled)
13. (Currently Amended) A switch as claimed in claim ~~44~~ 47, wherein the switch is a mobile switching center of a wireless communication network.
14. (Currently Amended) A switch as claimed in claim ~~40~~ 47, comprising a transcoder.
15. (Canceled)
16. (Canceled)
17. (Canceled)
18. (Canceled)

19. (Canceled)

20. (Canceled)

21. (Currently Amended) A method for establishing a call between a calling terminal of an originating network and a recipient terminal of a terminating network, the method comprising:

- ~~receiving call identification information in a first format at the terminating network a request from the originating network to set up a call with the recipient terminal, the recipient terminal operable in a single numbering scheme that enables the recipient terminal to receive different selectable call types from the calling terminal using a single telephone number to address the recipient terminal; reformatting received call identification information into a second format;~~
- sending from the terminating network a call set-up message to the recipient terminal, said call set-up message comprising a bearer capability information element for indicating a type of call to be set up between the calling terminal of the originating network and the recipient terminal; outputting the call identification information in the second format over the terminating network; and
- completing a connection, suitable for the identified call to be set-up[[,]] between the terminals using a suitable one of said selectable call types, wherein a call set-up message containing an empty bearer capability information element is sent to the recipient terminal to inform the recipient terminal that the terminating network is not able to provide the recipient terminal with information from the originating network about the type of call to be set-up.

22. (Currently Amended) A system as claimed in claim 24 57, wherein the call identification information comprises call type information.

23. (Currently Amended) A system as claimed in claim 22 57, wherein the call type information comprises telecommunications service information.

24. (Currently Amended) A system as claimed in ~~claim 24~~ claim 57, wherein the call identification information comprises bearer service information.

25. (Currently Amended) A system as claimed in claim 24 57, wherein reformatting received call identification information comprises negotiating the bearer service of the terminating network to match that of the originating network.

26. (Currently Amended) A system as claimed in claim 24 57, wherein the first format is an in-band format.

27. (Currently Amended) A system as claimed in claim 24 57, wherein the second format is an out-band format.

28. (Canceled)

29. (Canceled)

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40. (Canceled)

41. (Canceled)

42. (Canceled)

43. (Canceled)
44. (New) A switch as claimed in claim 1, further comprising an input for receiving a call confirmation message from the recipient terminal, the call confirmation message comprising an indication of call types supported by the recipient terminal and bearer capability information indicating bearer services supported by the recipient terminal.
45. (New) A switch as claimed in claim 1, comprising:
an input for receiving call identification information from the originating network;
means for interpreting the received call identification information; and
means for setting up a connection between the terminating network and the terminal in the originating network with a commonly agreed data modulation rate.
46. (New) A switch as claimed in claim 1, comprising:
an input for receiving call identification information in a first format from the originating network;
reformatting means for reformatting the received call identification information into a second format;
an output for outputting the call identification information in the second format over the terminating network.
47. (New) A switch as claimed in claims 46, comprising an interworking function wherein said reformatting means for reformatting the received call identification information into a second format is located in said interworking function.
48. (New) A switch as claimed in claim 46, arranged to establish a speech connection between the calling and recipient terminals if no appropriate signalling from the originating can be identified.

49. (New) A switch as claimed in claim 46, arranged to terminate the call if no appropriate signalling from the originating network can be identified.
50. (New) A switch as claimed in claim 46, arranged to establish a speech connection between the calling and recipient terminals if the bearer capabilities of the originating network and the recipient terminal are not compatible.
51. (New) A switch as claimed in claim 46, arranged to terminate the call if the bearer capabilities of the originating network and the recipient terminal are not compatible.
52. (New) A method as claimed in claim 21, further comprising sending a call confirmation message from the recipient terminal to the terminating network, the call confirmation message comprising an indication of call types supported by the recipient terminal and bearer capability information indicating bearer services supported by the recipient terminal.
53. (New) A method as claimed in claim 21, further comprising, prior to completing a connection between the terminals:
- receiving at the terminating network call identification information from the originating network;
 - interpreting the received call identification information and setting up a connection between the terminating network and the calling terminal in the originating network with a commonly agreed data modulation rate.
54. (New) A method as claimed in claim 21, further comprising, prior to completing a connection between the terminals:
- receiving at the terminating network call identification information in a first format from the originating network;

reformatting the received call identification information into a second format;
outputting the call identification information in the second format over the
terminating network.

55. (New) A method as claimed in claim 54, wherein if no appropriate signalling from the originating network can be identified, a speech connection is established between the calling and recipient terminals.

56. (New) A communication system comprising an originating network, a terminating network and a switch for establishing a call between a calling terminal of the originating network and a recipient terminal of the terminating network, the switch comprising:

an input for receiving a request from the originating network to set up a call with the recipient terminal, the recipient terminal operable in a single numbering scheme that enables the recipient terminal to receive different selectable call types from the calling terminal using a single telephone number to address the recipient terminal;

an output for sending a call set-up message to the recipient terminal, said call set-up message comprising a bearer capability information element for indicating a type of call to be set up between the calling terminal of the originating network and the recipient terminal; and

connection means for completing a connection between the terminals, and wherein the switch is arranged to send a call set-up message containing an empty bearer capability information element to the recipient terminal to inform the recipient terminal that the terminating network is not able to provide the recipient terminal with information from the originating network about the type of call to be set-up.

57. (New) A communication system as claimed in claim 56, wherein the switch is further arranged to:

receive call identification information in a first format from the originating network;
reformat the received call identification information into a second format;

output the call identification information in the second format over the terminating network.

58. (New) A communication system as claimed in claim 56, wherein the terminating network is digital.

59. (New) A communication system as claimed in claim 56, wherein the originating network is analogue.

60. (New) A communication system as claimed in claim 56, wherein one of the networks is a wireless communications network.

61. (New) A communication system as claimed in claim 60, wherein the wireless communication network is a universal mobile telecommunications system (UMTS) network.

62. (New) A communication system as claimed in claim 60, wherein the wireless communication network is a GSM network.

63. (New) A communication system as claimed in claim 60, wherein the wireless communications network is the terminating network.

64. (New) A communication system as claimed in claim 60, wherein the switch is a mobile switching centre of the wireless communication network.

65. (New) A communication system as claimed in claim 56, wherein one of the networks is a fixed line network.

66. (New) A communication system as claimed in claim 65, wherein the fixed line network is a PSTN network.

67. (New) A communication system as claimed in claim 65, wherein the fixed line network is an ISDN network.

68. (New) A communication system as claimed in claim 65, wherein the fixed line network is the originating network.

69. (New) A recipient terminal comprising:

means for receiving a call from a calling terminal in an originating network via a terminating network; and

means for receiving from the terminating network a call set-up message comprising a bearer capability information element for indicating a type of call to be set up with a calling terminal, wherein the recipient terminal is able to interpret a call set-up message containing an empty bearer capability information element as an indication that the terminating network is not able to provide the recipient terminal with information from the originating network about the type of call to be set up.

70. (New) A recipient terminal as claimed in claim 69, wherein the recipient terminal is able to send a call confirmation message to the terminating network in response to receipt of a call set-up message containing an empty bearer capability information element, the call confirmation message comprising an indication of call types supported by the recipient terminal and bearer capability information indicating bearer services supported by the recipient terminal.

71. (New) A recipient terminal as claimed in claim 69, arranged to operate in a single numbering scheme that enables the recipient terminal to receive different selectable call

types from the calling terminal using a single telephone number to address the recipient terminal.

72. (New) A switch as claimed in claim 3, wherein the call identification information comprises bearer service information.

73. (New) A switch as claimed in claim 46, wherein the call identification information comprises bearer service information.

74. (New) A switch as claimed in claim 47, wherein the call identification information comprises bearer service information.

75. (New) A switch as claimed in claim 7, wherein the first format is an in-band format.

76. (New) A communication system as claimed in claim 59, wherein the terminating network is digital.

77. (New) A method as claimed in claim 26, wherein the second format is an out-band format.